

COORDINATION CHEMISTRY REVIEWS, VOL. 174 (1998)

AUTHOR INDEX

- |                         |                       |                           |
|-------------------------|-----------------------|---------------------------|
| Barnes, D.L., 255       | Hirotsu, M., 109      | Ohrenberg, C., 301        |
| Baroni, T.E., 255       | Hodel, R.R., 255      | Okawa, H., 51             |
| Bartos, M.J., 361       | Hoshino, N., 77       | Peterman, D.R., 283       |
| Bembenek, S., 255       | Izatt, R.M., 179      | Rakowski DuBois, M., 191  |
| Blaho, J.K., 391        | Jung, K.W., 33        | Ramos-Maldonado, D., 241  |
| Borovik, A.S., 241      | Kashino, S., 109      | Reiter, W.A., 343         |
| Bowman-James, K., 343   | Kauffmann, K.E., 361  | Rheingold, A.L., 241, 301 |
| Bradshaw, J.S., 179     | Kita, M., 109         | Rickard, C.E.F., 361      |
| Cameron, J.H., 313      | Kojima, M., 109       | Riley, D.P., 133          |
| Champness, N.R., 417    | Kolchinski, A.G., 207 | Riordan, C.G., 301        |
| Choppin, G.R., 283      | Kostka, K.L., 361     | Rosair, G., 313           |
| Clarke, C.A., 313       | Krakowiak, K.E., 179  | Schröder, M., 417         |
| Clifford, T., 343       | Laird, B.B., 255      | Scott, E.L., 313          |
| Collins, T.J., 361      | Lee, S., 343          | Slattery, S.J., 391       |
| Danby, A., 343          | Lehnes, J., 391       | Staples, R.J., 147        |
| Danks, J.P., 417        | Lever, A.B.P., 469    | Szczepura, L.F., 5        |
| Deffo, T., 343          | Liable-Sands, L., 301 | Takeuchi, K.J., 5         |
| Dodsworth, E.S., 469    | Lindoy, L.F., 327     | Takusagawa, F., 255       |
| Fackler, J.P., 147      | Liu, C.W., 147        | Uffelman, E.S., 361       |
| Fenton, D.E., 51        | McClure, M.R., 33     | Vlcek, A.A., 469          |
| Fox, B.G., 361          | Miyagawa, M., 109     | Weintraub, S.T., 361      |
| Franklin, G.W., 133     | Morton, M.D., 255     | Witham, L.M., 5           |
| Furutachi, H., 51       | Münck, E., 361        | Worrell, J.H., 33         |
| Gerges, A., 343         | Murata, M., 109       | Wright, L.J., 361         |
| Goldsby, K.A., 391      | Nakajima, K., 109     | Yap, G.P.A., 241          |
| Gordon-Wylie, S.W., 361 | Neumann, W.L., 133    | Yoshikawa, Y., 109        |
| Gorelsky, S.I., 469     | Noon, K.R., 361       | Young, V.G., Jr., 241     |
| Hammes, B.S., 241       |                       | Zhang, X.X., 179          |
| Heppert, J.A., 255      |                       |                           |
| Hioki, A., 109          |                       |                           |

SUBJECT INDEX

- |   |  |
|---|--|
| Accordion porphyrin   | Alkaline-earth metal ion complex   |
| Accordion porphyrins. Hybrid models for heme and binuclear monooxygenases 343 | Approaches to improvement of metal ion selectivity by cryptands 179          |
| Alkali metal ion complex  | Arene activation   |
| Approaches to improvement of metal ion selectivity by cryptands 179           | The activation of $\eta^5$ -pyrrole complexes toward nucleophilic attack 191 |

## Aza

Chemistry of mixed nitrogen- and sulfur-donor tridentate macrocycles 417

## Benzoquinonediimine

Trends in metal–ligand orbital mixing in generic series of ruthenium N-donor ligand complexes—effect on electronic spectra and redox properties, 469

## Binding constants

Hydrogen bonding in tungsten (VI) salicylate free acids 255

## Binuclear

Accordion porphyrins. Hybrid models for heme and binuclear monooxygenases 343

## Biological activity

Anhydrooligomers of *o*-aminobenzaldehydes—the rich chemistry of the Busch macrocycles 207

## Cadmium complexes

Synthesis, characterization and solution  $^{113}\text{Cd}$  NMR analysis of Cd(II) 1,4,7,10,13-pentaazacyclopentadecane complexes 133

## Carbon spectrum

High-resolution NMR analysis of cobalt(III) complexes with 1,8-diamino-3,6-dithiaoctane, 33

## Chalcogenides

Copper(I) 1,1-dithiolate cluster transformations. Synthesis of  $[\text{Bu}_4\text{N}]_6[\text{Cu}_6(\text{S},i\text{-MNT})_6]$ ,  $i\text{-MNT}=[\text{S}_2\text{CC}(\text{CN})_2]^-$ , from  $[\text{Bu}_4\text{N}]_4[\text{Cu}_8(i\text{-MNT})_6]$  with sulfur. Reaction of the cyclic hexanuclear complex with phosphine to give the tetrahedral  $[\text{Bu}_4\text{N}]_4[\text{Cu}_4(i\text{-MNT})_4]$  which oxidizes in solution to give the homocubane  $[\text{Bu}_4\text{N}]_4[\text{Cu}_8(i\text{-MNT})_6]$  and  $[\text{Bu}_4\text{N}]_2[\text{Cu}(i\text{-MNT})_2]$  147

## Chiral complex reactivity control

Structural control of reactivity in some new cyclidene complexes 313

## Clusters

Copper(I) 1,1-dithiolate cluster transformations. Synthesis of  $[\text{Bu}_4\text{N}]_6[\text{Cu}_6(\text{S},i\text{-MNT})_6]$ ,  $i\text{-MNT}=[\text{S}_2\text{CC}(\text{CN})_2]^-$ , from  $[\text{Bu}_4\text{N}]_4[\text{Cu}_8(i\text{-MNT})_6]$  with sulfur. Reaction of the cyclic hexanuclear complex with phosphine to give the tetrahedral  $[\text{Bu}_4\text{N}]_4[\text{Cu}_4(i\text{-MNT})_4]$  which oxidizes in solution to give the homocubane  $[\text{Bu}_4\text{N}]_4[\text{Cu}_8(i\text{-MNT})_6]$  and  $[\text{Bu}_4\text{N}]_2[\text{Cu}(i\text{-MNT})_2]$  147

## Cluster synthesis

Copper(I) 1,1-dithiolate cluster transformations. Synthesis of  $[\text{Bu}_4\text{N}]_6[\text{Cu}_6(\text{S},i\text{-MNT})_6]$ ,  $i\text{-MNT}=[\text{S}_2\text{CC}(\text{CN})_2]^-$ , from  $[\text{Bu}_4\text{N}]_4[\text{Cu}_8(i\text{-MNT})_6]$  with sulfur. Reaction of the cyclic hexanuclear complex with phosphine to give the tetrahedral  $[\text{Bu}_4\text{N}]_4[\text{Cu}_4(i\text{-MNT})_4]$  which oxidizes in solution to give the homocubane  $[\text{Bu}_4\text{N}]_4[\text{Cu}_8(i\text{-MNT})_6]$  and  $[\text{Bu}_4\text{N}]_2[\text{Cu}(i\text{-MNT})_2]$  147

## Cobalt complexes

A complete series of stepwise oxidation of  $[\text{Co}(2\text{-pyridinethiolato})(\text{en})_2]^{2+}$ .

Characterization of the 2-pyridinesulfenato-*N,S* and -*N,O*, 2-pyridinesulfonato-*N,S* and -*N,O*, and 2-pyridinesulfonato-*N,O* complexes 109

## Cobalt (III)

High-resolution NMR analysis of cobalt(III) complexes with 1,8-diamino-3,6-dithiaoctane, 33

## Compartmental ligands

Heterodinuclear metal complexes of phenol-based compartmental macrocycles 51

## Complexation

Chemistry of mixed nitrogen- and sulfur-donor tridentate macrocycles 417

## Copper complexes

Synthesis, solid-state structure and reactivity of  $[\text{PhTi}^{\text{Ph}}]\text{Cu}$  301

## Cryptand

Approaches to improvement of metal ion selectivity by cryptands 179

## Cyclidene

Structural control of reactivity in some new cyclidene complexes 313

## Cytochrome P450 model

Accordion porphyrins. Hybrid models for heme and binuclear monooxygenases 343

## 2-D NMR

High-resolution NMR analysis of cobalt(III) complexes with 1,8-diamino-3,6-dithiaoctane, 33

## Dendrimer

Heavy metal ion chemistry of linked macrocyclic systems incorporating oxygen and/or sulfur in their donor sets 327

## Electronic coupling

Trends in metal–ligand orbital mixing in generic series of ruthenium N-donor ligand complexes—effect on electronic spectra and redox properties, 469

**Equilibrium constant**

Approaches to improvement of metal ion selectivity by cryptands 179

**Europium (III)**

Applications of lanthanide luminescence spectroscopy to solution studies of coordination chemistry 283

**Heavy-metal**

Heavy metal ion chemistry of linked macrocyclic systems incorporating oxygen and/or sulfur in their donor sets 327

**Heterodinuclear**

Heterodinuclear metal complexes of phenol-based compartmental macrocycles 51

**High valent iron complexes**

Designing ligands to achieve robust oxidation catalysts. Iron based systems, 361

**Hydrogen bonding**

Hydrogen bonding in tungsten (VI) salicylate free acids 255

**Iron-57 Mössbauer spectroscopy**

Designing ligands to achieve robust oxidation catalysts. Iron based systems, 361

**Lanthanide**

Applications of lanthanide luminescence spectroscopy to solution studies of coordination chemistry 283

**Ligand design**

Designing ligands to achieve robust oxidation catalysts. Iron based systems, 361

**Ligand oxidation**

A complete series of stepwise oxidation of  $[\text{Co}(\text{2-pyridinethiolato})(\text{en})_2]^{2+}$ .

Characterization of the 2-pyridinesulfonato-*N,S* and -*N,O*, 2-pyridinesulfinato-*N,S* and -*N,O*, and 2-pyridinesulfonato-*N,O* complexes 109

**Ligand oxidative degradation**

Designing ligands to achieve robust oxidation catalysts. Iron based systems, 361

**Linked-macrocycles**

Heavy metal ion chemistry of linked macrocyclic systems incorporating oxygen and/or sulfur in their donor sets 327

**Liquid crystal**

Liquid crystal properties of metal–salicylal-dimine complexes chemical modifications. Towards lower symmetry 77

**Luminescence**

Applications of lanthanide luminescence spectroscopy to solution studies of coordination chemistry 283

**Macrocycle**

Heterodinuclear metal complexes of phenol-based compartmental macrocycles 51

Structural control of reactivity in some new cyclidene complexes 313

Heavy metal ion chemistry of linked macrocyclic systems incorporating oxygen and/or sulfur in their donor sets 327

Chemistry of mixed nitrogen- and sulfur-donor tridentate macrocycles 417

**Macrocyclic compounds**

Anhydrooligomers of *o*-aminobenzaldehydes—the rich chemistry of the Busch macrocycles 207

**Macrocyclic ligand**

Synthesis, characterization and solution  $^{113}\text{Cd}$  NMR analysis of  $\text{Cd}(\text{II})$  1,4,7,10,13-pentaazacyclopentadecane complexes

**Manganese**

Accordion porphyrins. Hybrid models for heme and binuclear monooxygenases 343

**Metal**

Chemistry of mixed nitrogen- and sulfur-donor tridentate macrocycles 417

**Metal complex**

Liquid crystal properties of metal–salicylal-dimine complexes chemical modifications. Towards lower symmetry 77

**Metallomesogen**

Liquid crystal properties of metal–salicylal-dimine complexes chemical modifications. Towards lower symmetry 77

**Metalloprotein model**

Accordion porphyrins. Hybrid models for heme and binuclear monooxygenases 343

**Metallothioneins**

Copper(I) 1,1-dithiolate cluster transformations. Synthesis of  $[\text{Bu}_4\text{N}]_6[\text{Cu}_6(\text{S},i\text{-MNT})_6]$ ,  $i\text{-MNT} = [\text{S}_2\text{CC}(\text{CN})_2]^-$ , from  $[\text{Bu}_4\text{N}]_4[\text{Cu}_8(i\text{-MNT})_6]$  with sulfur. Reaction of the cyclic hexanuclear complex with phosphine to give the tetrahedral  $[\text{Bu}_4\text{N}]_4[\text{Cu}_4(i\text{-MNT})_4]$  which oxidizes in solution to give the homocubane  $[\text{Bu}_4\text{N}]_4[\text{Cu}_8(i\text{-MNT})_6]$  and  $[\text{Bu}_4\text{N}]_2[\text{Cu}(i\text{-MNT})_2]$  147

**Monooxygenase model**

Accordion porphyrins. Hybrid models for heme and binuclear monooxygenases 343

**Nucleophilic addition**

The activation of  $\eta^5$ -pyrrole complexes toward nucleophilic attack 191

**Nucleophilic substitution**

The activation of  $\eta^5$ -pyrrole complexes toward nucleophilic attack 191

**Phenoxides**

Hydrogen bonding in tungsten (VI) salicylate free acids 255

**Pyrrole**

The activation of  $\eta^5$ -pyrrole complexes toward nucleophilic attack 191

**Proton spectrum**

High-resolution NMR analysis of cobalt(III) complexes with 1,8-diamino-3,6-dithiaoctane, 33

**Reactivity control**

Structural control of reactivity in some new cyclidene complexes 313

**Ruthenium**

Trends in metal–ligand orbital mixing in generic series of ruthenium N-donor ligand complexes—effect on electronic spectra and redox properties, 469

**Salicylaldimine**

Liquid crystal properties of metal–salicylaldimine complexes chemical modifications. Towards lower symmetry 77

**Salicylates**

Hydrogen bonding in tungsten (VI) salicylate free acids 255

**Spectroscopy**

Applications of lanthanide luminescence spectroscopy to solution studies of coordination chemistry 283

**Structure**

High-resolution NMR analysis of cobalt(III) complexes with 1,8-diamino-3,6-dithiaoctane, 33

**Sulfenato complexes**

A complete series of stepwise oxidation of  $[\text{Co}(\text{2-pyridinethiolato})(\text{en})_2]^{2+}$ . Characterization of the 2-pyridinesulfenato-*N,S* and -*N,O*, 2-pyridinesulfinato-*N,S* and -*N,O*, and 2-pyridinesulfonato-*N,O* complexes 109

**Sulfinato complexes**

A complete series of stepwise oxidation of  $[\text{Co}(\text{2-pyridinethiolato})(\text{en})_2]^{2+}$ . Characterization of the 2-pyridinesulfenato-*N,S* and -*N,O*, 2-pyridinesulfinato-*N,S* and -*N,O*, and 2-pyridinesulfonato-*N,O* complexes 109

**Sulfonato complexes**

A complete series of stepwise oxidation of  $[\text{Co}(\text{2-pyridinethiolato})(\text{en})_2]^{2+}$ .

Characterization of the 2-pyridinesulfenato-*N,S* and -*N,O*, 2-pyridinesulfinato-*N,S* and -*N,O*, and 2-pyridinesulfonato-*N,O* complexes 109

**Sulfur ligands**

Synthesis, solid-state structure and reactivity of  $[\text{PhTi}^{\text{Ph}}]\text{Cu}$ , 301

**Supramolecular**

Hydrogen bonding in tungsten (VI) salicylate free acids 255

**TAAB**

Anhydrooligomers of *o*-aminobenzaldehydes—the rich chemistry of the Busch macrocycles 207

**Template effect**

Anhydrooligomers of *o*-aminobenzaldehydes—the rich chemistry of the Busch macrocycles 207

**Terbium (III)**

Applications of lanthanide luminescence spectroscopy to solution studies of coordination chemistry 283

**Thioether**

Chemistry of mixed nitrogen- and sulfur-donor tridentate macrocycles 417

**Thiolato complexes**

A complete series of stepwise oxidation of  $[\text{Co}(\text{2-pyridinethiolato})(\text{en})_2]^{2+}$ .

Characterization of the 2-pyridinesulfenato-*N,S* and -*N,O*, 2-pyridinesulfinato-*N,S* and -*N,O*, and 2-pyridinesulfonato-*N,O* complexes 109

**Transition metal**

Heavy metal ion chemistry of linked macrocyclic systems incorporating oxygen and/or sulfur in their donor sets 327

**TRI**

Anhydrooligomers of *o*-aminobenzaldehydes—the rich chemistry of the Busch macrocycles 207

**Tungsten**

Hydrogen bonding in tungsten (VI) salicylate free acids 255

**Zindo**

Trends in metal–ligand orbital mixing in generic series of ruthenium N-donor ligand complexes—effect on electronic spectra and redox properties, 469



